

Cubic, corner position

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:
20-702-M3
Date
2020-01-16

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.53	
63	0.49	0.6
80	0.65	
100	0.78	
125	2.09	1.5
160	1.76	
200	2.37	
250	1.97	2.1
315	1.93	
400	1.89	
500	2.10	2.1
630	2.18	
800	2.12	
1000	2.04	2.0
1250	1.93	
1600	1.93	
2000	1.86	1.9
2500	1.77	
3150	1.83	
4000	1.75	1.8
5000	1.74	

Client: Johanson Design

Manufacturer: Johanson Design

Product identification: Cubic

Description of test specimen: Sound absorbing pillar 400 x 400 x 2000 mm. Wooden frame with sides and top of 40 mm glass fibre slabs (Ecophon Master A). Covered with foam laminated fabric.
Corner position deviates from ISO 354.

Reverberation room volume: 200 m³

Temperature: 17.0 °C (empty: 17.7 °C)

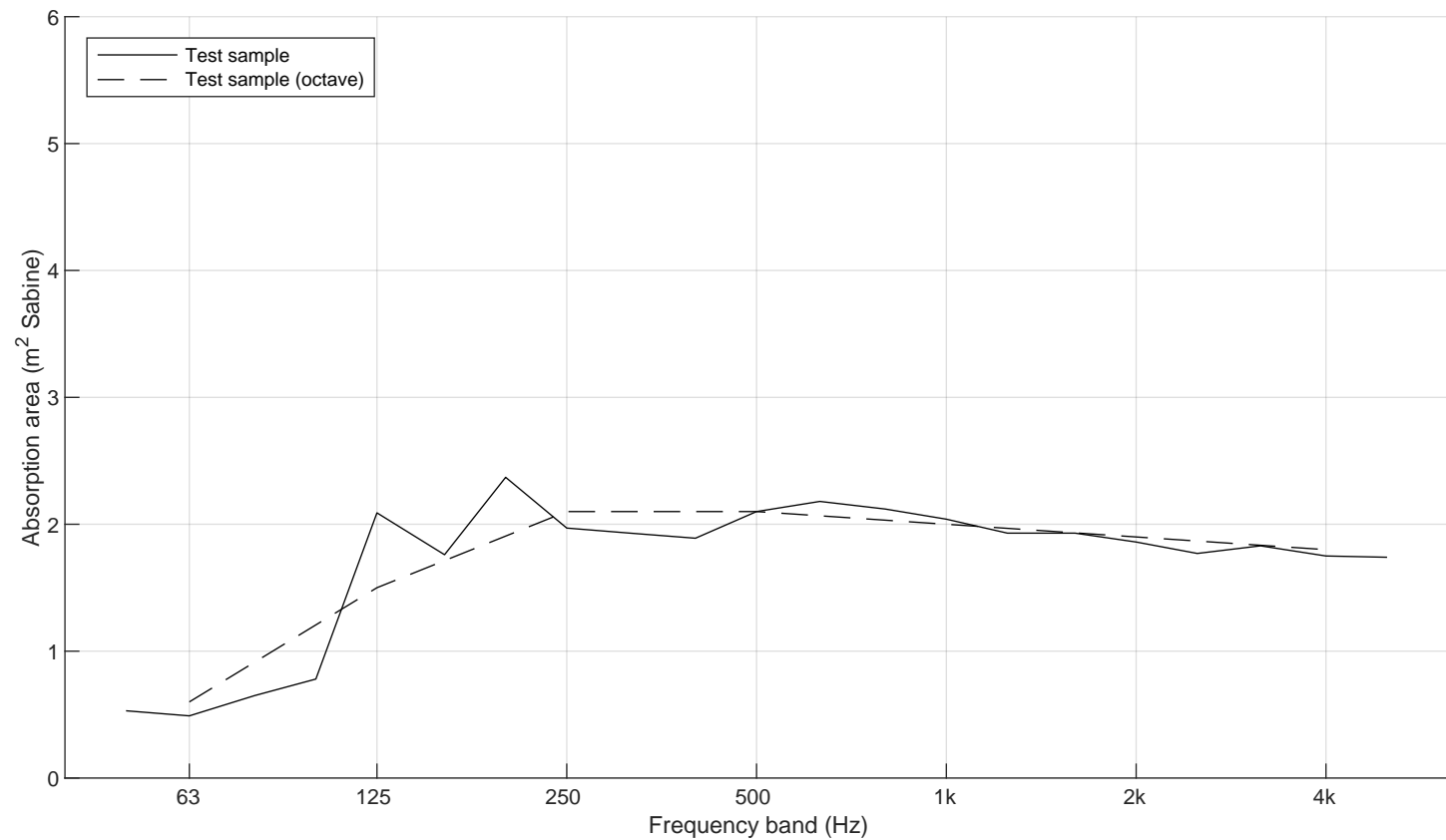
Air humidity: 40 % (empty: 40 %)

Air pressure: 97.2 kPa (empty: 97.2 kPa)

Number of specimens: 3

Measurement date: 2020-01-14

Measured by: Carl Nyqvist



$N_{10} = 5.6$

Cubic

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:
20-702-M1
Date
2020-01-16

Frequency f [Hz]	Sound absorption area [m ² Sabine]	
50	0.43	
63	0.40	0.4
80	0.47	
100	0.62	
125	1.34	1.2
160	1.67	
200	1.88	
250	2.00	2.0
315	2.07	
400	2.24	
500	2.59	2.6
630	2.87	
800	3.33	
1000	3.18	3.2
1250	3.16	
1600	3.15	
2000	3.24	3.2
2500	3.11	
3150	3.05	
4000	3.22	3.1
5000	3.08	

Client: Johanson Design
 Manufacturer: Johanson Design
 Product identification: Cubic
 Description of test specimen: Sound absorbing pillar 400 x 400 x 2000 mm. Wooden frame with sides and top of 40 mm glass fibre slabs (Ecophon Master A). Covered with foam laminated fabric.

Reverberation room volume: 200 m³
 Temperature: 17.3 °C (empty: 17.7 °C)
 Air humidity: 40 % (empty: 40 %)
 Air pressure: 97.2 kPa (empty: 97.2 kPa)
 Number of specimens: 3
 Measurement date: 2020-01-14
 Measured by: Carl Nyqvist

$$N_{10} = 3.8$$

